

03050108-020

(Enoree River)

General Description

Watershed 03050108-020 is located in Spartanburg, Laurens, and Union Counties and consists primarily of the **Enoree River** and its tributaries from Beaverdam Creek to Duncan Creek. The watershed occupies 83,425 acres of the Piedmont region of South Carolina. The predominant soil types consist of an association of the Cecil-Wilkes series. The erodibility of the soil (K) averages 0.25, and the slope of the terrain averages 18%, with a range of 2-45%. Land use/land cover in the watershed includes: 81.7% forested land, 11.4% scrub/shrub land, 5.5% agricultural land, 0.9% urban land, 0.4% barren land, and 0.1% water.

This segment of the Enoree River accepts drainage from its upstream reach, together with the Beaverdam Creek Watershed, Twomile Creek (Hannah Creek), Buckhead Creek, the Warrior Creek Watershed, Enoree Creek, and Cedar Shoals Creek. Elishas Creek enters the river next followed by Frenchman Creek, Johns Creek (Wildcat Branch), Sispring Branch, and Hills Creek. There are several ponds (totaling 66.5 acres) and a total of 181.9 stream miles in this watershed, all classified FW. The lower portion of the watershed resides within the Sumter National Forest.

Water Quality

<u>Station #</u>	<u>Type</u>	<u>Class</u>	<u>Description</u>
B-041	P	FW	ENOREE RIVER AT SC 49, SE OF WOODRUFF
B-785	BIO	FW	CEDAR SHOALS CK AT UNNAMED RD 0.2 KM ABOVE CONFL.W/ENOREE R.
B-053	W	FW	ENOREE RIVER AT SC 72, 121, & US 176, 1 MI NE WHITMIRE

Enoree River - There are two monitoring sites along this section of the Enoree River. At the furthest upstream site (**B-041**), aquatic life uses are not supported due to occurrences of zinc in excess of the aquatic life acute standards, including a very high concentration of zinc in 1996. A very high concentration of chromium was measured in water in 1998 and a very high concentration of cadmium was measured in 1999. There is also a significant decreasing trend in pH. Significant decreasing trends in five-day biochemical oxygen demand and total nitrogen concentration suggest improving conditions for these parameters. Recreational uses are partially supported at this site due to fecal coliform bacteria excursions. At the downstream site (**B-053**), aquatic life uses are fully supported. Recreational uses are not supported due to fecal coliform bacteria excursions.

Cedar Shoals Creek (B-785) - Aquatic life uses are fully supported based on macroinvertebrate community data.

NPDES Program

Active NPDES Facilities

<i>RECEIVING STREAM FACILITY NAME PERMITTED FLOW @ PIPE (MGD) COMMENT</i>	<i>NPDES# TYPE LIMITATION</i>
ENOREE RIVER RIVERDALE MILLS W&S DISTRICT PIPE #: 001 FLOW: 0.09 WQL FOR BOD5,DO,TRC,NH3N	SC0035734 MINOR DOMESTIC WATER QUALITY
ENOREE RIVER WR GRACE/SUMMER MINE PIPE #: 001 FLOW: M/R	SCG730001 MINOR INDUSTRIAL EFFLUENT
ENOREE RIVER TOWN OF WHITMIRE WTP PIPE #: 001 FLOW: M/R	SCG645046 MINOR DOMESTIC EFFLUENT
ENOREE CREEK CAROLINA VERMICULITE PIPE #: 001 FLOW: M/R	SCG730013 MINOR INDUSTRIAL EFFLUENT
ENOREE CREEK WR GRACE/DESHIELDS 1&2 MINE PIPE #: 001 FLOW: M/R	SCG730092 MINOR INDUSTRIAL EFFLUENT
BUCKHEAD CREEK WR GRACE/ROPER MINE PIPE #: 001 FLOW: M/R	SCG730089 MINOR INDUSTRIAL EFFLUENT
BUCKHEAD CREEK TRIBUTARY WR GRACE/KEARNEY MILL SITE PIPE #: 001 FLOW: M/R	SC0045811 MINOR INDUSTRIAL EFFLUENT

Nonpoint Source Management Program

Land Disposal Activities

Landfill Facilities

<i>LANDFILL NAME FACILITY TYPE</i>	<i>PERMIT # STATUS</i>
MILLIKEN & CO. – ENTERPRISE PLANT INDUSTRIAL	422433-1601 (SCD000824862) -----
NATIONAL STARCH INDUSTRIAL	IWP-107 (SCD070364922) CLOSED
NATIONAL STARCH INDUSTRIAL	IWP-146 (SCD070364922) CLOSED

Mining Activities

<i>MINING COMPANY MINE NAME</i>	<i>PERMIT # MINERAL</i>
CAROLINA VERMICULITE NUMBER 8 MINE	1034-59 VERMICULITE
CAROLINA VERMICULITE BROWN #2 MINE	0623-83 VERMICULITE
WR GRACE & CO. SUMNER MINE	0714-59 VERMICULITE
WR GRACE & CO. WRIGHT #1 & 2	0278-59 VERMICULITE
WR GRACE & CO. DESHIELDS #1 & #2 MINE	1019-83 VERMICULITE ORE
WR GRACE & CO. BOYD-WHITMORE MINE	1118-59 VERMICULITE ORE
CAROLINA VERMICULITE DONNAN #1 MINE	1164-59 VERMICULITE
PATTERSON VERMICULITE CO. PATTERSON #3 MINE	0048-59 VERMICULITE
WR GRACE & CO. SCHUMACHER MINE	0907-83 VERMICULITE
WR GRACE & CO. WATSON MINE	1023-83 VERMICULITE ORE
WR GRACE & CO. GIDEON MINE	0833-83 VERMICULITE
RAY BROWN ENTERPRIZES BROWN MINE #2	0861-83 SAND
CAROLINA VERMICULITE LAURENCE MINE	1048-87 VERMICULITE ORE

Water Supply

<i>WATER USER STREAM</i>	<i>TOTAL PUMP. CAPACITY (MGD) RATED PUMP. CAPACITY (MGD)</i>
CITY OF CLINTON	3.5
ENOREE RIVER	1.7
TOWN OF WHITMIRE	2.2
ENOREE RIVER	1.0

Growth Potential

There is some potential for growth in the upper portion of this watershed near the Town of Enoree, associated with industrial development along U.S. Hwy. 221. The watershed is bisected by I-26 and some growth may be expected around the interstate interchanges. A commercial corridor has developed along U.S. Hwy. 176 and S.C. Hwy. 72 located in the lower region of the watershed, which serves the Whitmire community. Public water is available, but little growth is expected.